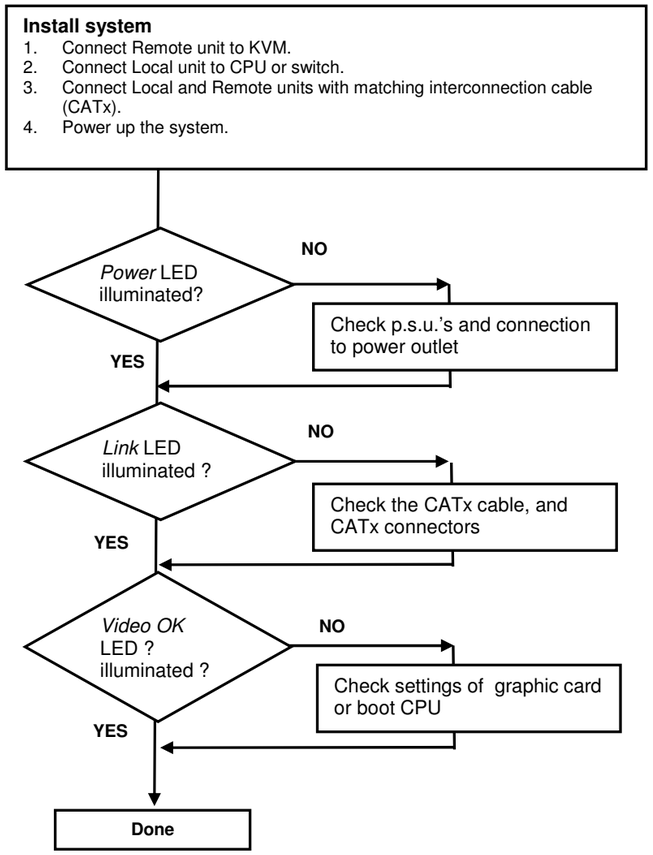
1 Quick Setup

This section briefly describes how to install your KVM extender system. Unless you are an experienced user, we recommend that you follow the full procedures described in the rest of this manual. You can download the manual on: http://www.ihse.de/pdf/b455-xw_e.pdf.


Install system
1. Connect Remote unit to KVM.
2. Connect Local unit to CPU or switch.
3. Connect Local and Remote units with matching interconnection cable (CATx).
4. Power up the system.
Power LED illuminated?
NO
Check p.s.u.'s and connection to power outlet
YES
Link LED illuminated ?
NO
Check the CATx cable, and CATx connectors
YES
Video OK LED ? illuminated ?
NO
Check settings of graphic card or boot CPU
YES
Done

2 Installation

For first-time users, we recommend that you carry out a test placement, confined to a single room, before commencing full installation. This will allow you to identify and solve any cabling problems, and experiment with the KVM extender system more conveniently.

2.1 Package Contents

You should receive the following items in your extender package (all types):

- DVXi/ET KVM-Extender- pair (Local Unit + Remote Unit)
- 2x 5V DC universal power supply for the DVXi/ET - Extender
- 2x German type power cord
- User manual (Quick Setup)

K455-1W and K455-2W (additionally):

- KVM CPU cable set (1.8m) with one side: PS/2 (6-pin mini-DIN male) keyboard and mouse connector and DVI-I video (DVI-I dual link male) connector – other side: DVI-I video (DVI-I dual link male) connector
- PS2-Keyboard-/ Mouse adapter to connect K/M to the Local Unit (keyboard can be plugged in directly, without using an adapter)

K455-1U and K455-2U (additionally):

- DVI-I (1,8m) video cable (DVI-I dual link male-to-male)
- USB (1,8m) cable (USB type A to type B)

K455-2W and K455-2U (additionally):

- DVI-I (1,8m) video cable (DVI-I dual link male-to-male)

If anything is missing, please contact Technical Support

DVXI/LC-XC DVI- KVM-EXTENDER

2.2 System Setup

To install your DVXi/LC – Extender system:

1. Switch off all devices.
2. Connect your keyboard, monitor(s) and mouse to the Remote unit (depending on device type). Please ensure, to not swap Mouse- and Keyboard connector. The Keyboard connector is purple and the Mouse connector is green.
3. Using the supplied CPU KVM cable(s), connect the keyboard, monitor(s) and mouse connectors on the computer (or KVM switch). Please ensure, to not swap Mouse- and Keyboard connector. The Keyboard connector is purple and the Mouse connector is green.
4. Connect the interconnect cable to the INTERCONNECT socket(s)
5. Connect the 5V power supply to power the unit.

   Only use the power supply originally supplied with this equipment or a manufacturer-approved replacement.

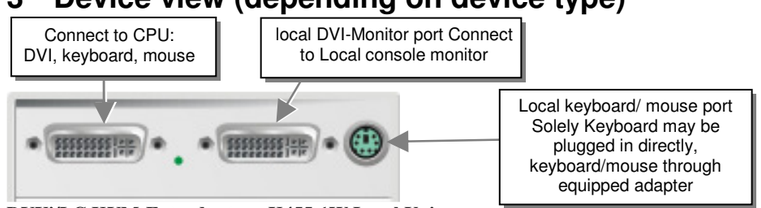
6. For a dual access system, connect the keyboard, mouse and monitor for the Local console to the appropriate ports on the Local unit. The ports may also be used to feed into a KVM switch. To the local (PS2-) Keyboard-/ Mouse port you can attach a Keyboard directly or Mouse/ Keyboard together, using the delivered adapter.
7. Power up the system.

2.3 Interconnection Cable Requirements

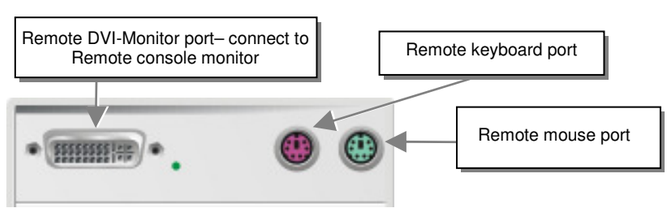
To connect the Local and Remote units you will need:

- **DVI, PS2-Keyboard, PS2-Mouse:** Connect the supplied KVM CPU cable set to your CPU (KVM.- Switch, etc.). Please ensure that the connection is tension-free! Devices K455-1W + K455-2W
- **DVI, USB-Keyboard, USB-Mouse:** Connect the supplied DVI-I cable (DVI-I to DVI-I) and the USB-cable (USB-A to USB-B) to your CPU. Please ensure that the connection is tension-free! Devices K455-1U + K455-2U
- **DVI:** Connect the supplied DVI CPU cable set to your CPU (KVM.- Switch, etc.). Please ensure that the connection is tension-free! Devices K455-2W + K455-2U
- **CATx Cable:** Recommended cable: S/UTP (Cat5) according EIA/TIA 56A, TSB 36 or Digital STP 17-03170. Four pairs AWG 24. connection according EIA/TIA 568A (10BaseT). Use of cables from a higher category (Cat5e, Cat6, Cat7) is possible.
  The use of unshielded CATx Cable is possible, because of the higher electromagnetic noise/sensitivity the device class may not be reached.
  The use of flexible Cables (Patch cable) Type AWG26/8 is possible. Because of the higher loss of the stranded cables, the maximum distance is reduced to app. half the value of solid cables.
  A point to point connection is required. Having one or more patch panels in the line is possible and allowed. Not allowed is a connection from the CATx link interface (RJ45) to any other products, especially telecommunications or network equipment.
- **Power Supply**
  Connect the supplied 5V/DC power supplies to the ***Plug*** terminal on the rear of both Local and Remote units.

3 Device view (depending on device type)


Connect to CPU: DVI, keyboard, mouse
local DVI-Monitor port Connect to Local console monitor
Local keyboard/ mouse port Solely Keyboard may be plugged in directly, keyboard/mouse through equipped adapter

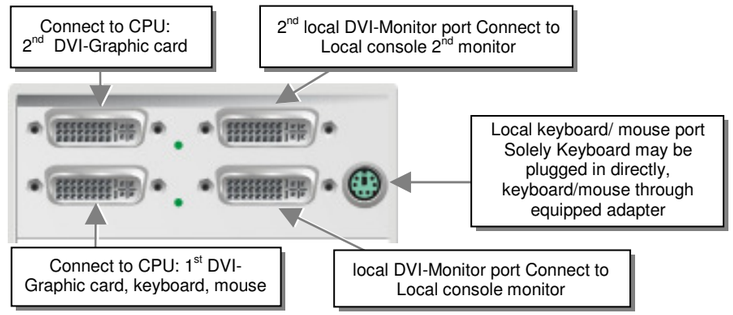
DVXi/LC KVM-Extender type K455-1W Local Unit



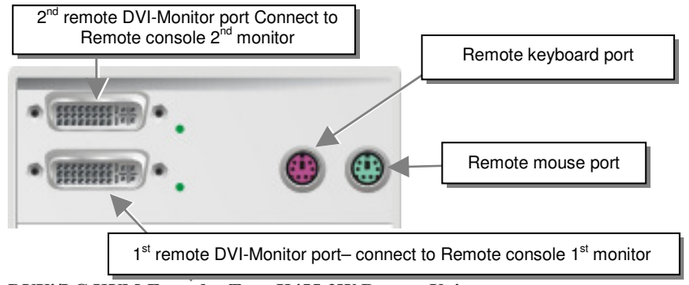
DVXi/LC KVM-Extender Typ K455-1W Remote Unit

manual : http://www.ihse.de/pdf/b455-xw_e.pdf

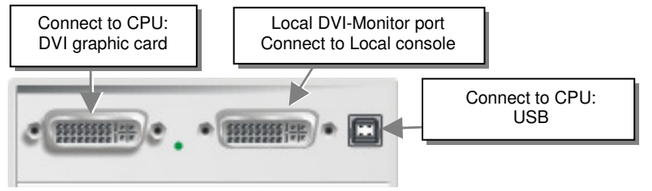
DVXI/LC-XC DVI- KVM-EXTENDER


Connect to CPU: 2nd DVI-Graphic card
2nd local DVI-Monitor port Connect to Local console 2nd monitor
Local keyboard/ mouse port Solely Keyboard may be plugged in directly, keyboard/mouse through equipped adapter
Connect to CPU: 1st DVI-Graphic card, keyboard, mouse
local DVI-Monitor port Connect to Local console monitor

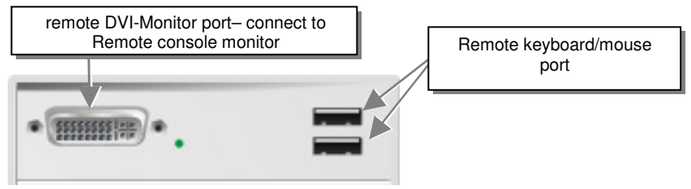
DVXi/LC KVM-Extender Type K455-2W Local Unit


2nd remote DVI-Monitor port Connect to Remote console 2nd monitor
Remote keyboard port
Remote mouse port
1st remote DVI-Monitor port– connect to Remote console 1st monitor

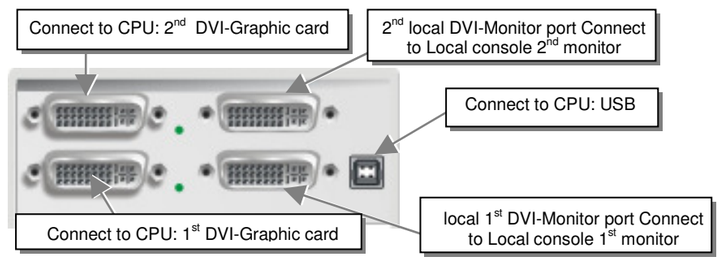
DVXi/LC KVM-Extender Type K455-2W Remote Unit



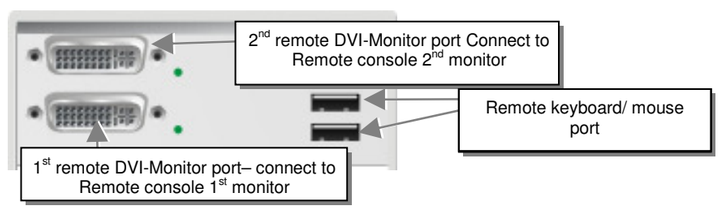
DVXi/LC KVM-Extender Type K455-1U Local Unit



DVXi/LC KVM-Extender Type K455-1U Remote Unit

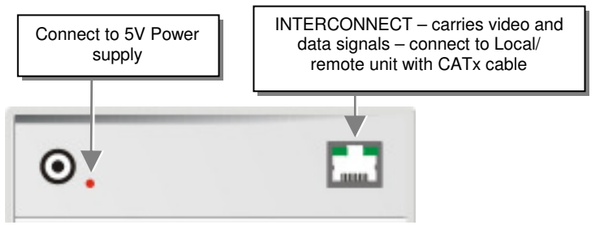

Connect to CPU: 2nd DVI-Graphic card
2nd local DVI-Monitor port Connect to Local console 2nd monitor
Connect to CPU: USB
Connect to CPU: 1st DVI-Graphic card
local 1st DVI-Monitor port Connect to Local console 1st monitor

DVXi/LC KVM-Extender Type K455-2U Local Unit

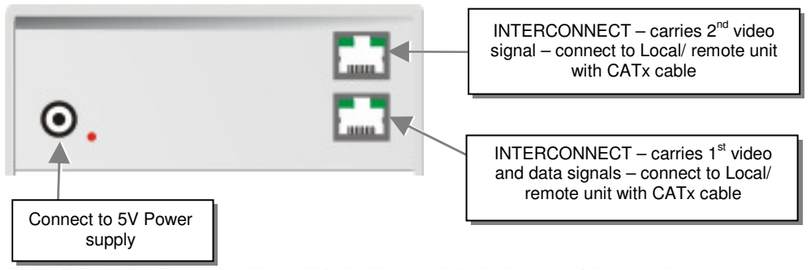

2nd remote DVI-Monitor port Connect to Remote console 2nd monitor
Remote keyboard/ mouse port
1st remote DVI-Monitor port– connect to Remote console 1st monitor

DVXi/LC KVM-Extender Type K455-2U Remote Unit

manual : http://www.ihse.de/pdf/b455-xw_e.pdf



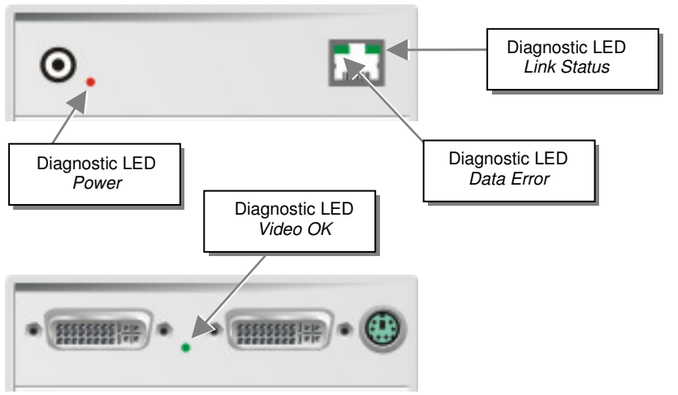
DVXi/ET KVM-Extender Type K455-1W and K455-1U Local/ Remote Unit


INTERCONNECT – carries 2nd video signal – connect to Local/ remote unit with CATx cable
INTERCONNECT – carries 1st video and data signals – connect to Local/ remote unit with CATx cable
Connect to 5V Power supply

DVXi/ET KVM-Extender Type K455-2W and K455-2U Local/ Remote Unit

3.1 Diagnostic LEDs

The location of the LEDs is shown below:



Diagnostic - LEDs at DVXi/LC - Extender

LED	*Appearance*	*Diagnostics*
Power LED (Red LED)	Off On	Device not ready Device ready
Video Okay (Green LED)	Off On	No or invalid video signal detected Device ready
Link Status (Green LED)	blinking On	No CAT5 connection Device ready
Data Error (Green LED)	Off blinking / On	Device ready Errors through data transmission over CAT5 Cable (Cable too long, too high attenuation or too much EMI interferences)

DVXI/LC-XC DVI- KVM-EXTENDER

4 Troubleshooting

Monitor

There isn't a picture.

Check the power supply connection at the Local and Remote unit. Is the *Power* (Red LED) at the Local and Remote unit illuminated? If not, the internal power-supply may be damaged or there may be an internal error.

Check that the Interconnection cable is connected at the Local Unit and the Remote Unit. Is the *Link Status* LED illuminated? If not, there may be a problem with the Interconnection cable:

Are there Errors through data transmission over fibre Cable (Cable too long, too high attenuation or too much EMI interferences)? Is the *Data Error* LED illuminated or blinking? If yes, check cable length and environment.

Video Okay LED is dark: CPU does not provide a video signal – Check settings of the graphic card. Try out, connecting a monitor to the local output, to see, whether there is a signal or not.

Keyboard

The PC boots fine with no error messages but the keyboard does not work at all

Wrong cable plugged in, keyboard and mouse cables reversed.

Try a different model of keyboard. If the new keyboard works then original one may be incompatible

Check that the Interconnection cable is connected at the Local Unit and the Remote Unit. Is the *Link Status* LED illuminated?

The other console is active. Gain control by any keyboard action or by pressing left and right mouse buttons simultaneously.

PS2-Mouse

A mouse cursor appears on the screen, but the mouse does not work

Wrong cable plugged in, keyboard and mouse cables reversed.

Try a different model of mouse

You have connected the Local unit while the CPU was running. Therefore you have connected first the keyboard cable and then the mouse cable. Disconnect the keyboard cable and connect it again. Please reboot you CPU if the mouse is still not running.

The system does not detect a PS/2 mouse, or the application cannot find the mouse.

Wrong cable plugged in, keyboard and mouse cables reversed.

Ensure that the Local Unit is connected to the PC keyboard port to provide power.

USB-Keyboard/USB-Mouse

Your USB-keyboard/USB-mouse does not work

Although we tried to design the devices as transparent as possible, we can't ensure that all devices are running. Please check in the manual the list of the tested devices.

USB-HID devices

Your USB-HID device does not work

Although our interface supports HID devices, we can't ensure that every connected device is running. In case of a malfunction please contact our technical support.

Other USB-devices

Your USB- device does not work

You have connected a non-HID device. There are supported HID devices only. All other

devices are dismissed

DVXi/LC-PC DVI-KVM-Extender

Type: K455-1W K455-2W K455-1U K455-2U

(Quick Setup)

manual : http://www.ihse.de/pdf/b455-xw_e.pdf

manual : http://www.ihse.de/pdf/b455-xw_e.pdf

manual : http://www.ihse.de/pdf/b455-xw_e.pdf